

LITTLE COLORADO RIVER BASIN

09400680 SWITZER CANYON AT FLAGSTAFF, AZ

LOCATION.--Lat 35°12'44", long 111°38'21", in SW¹/₄SE¹/₄ sec.10, T.21 N., R.7 E., Coconino County, Hydrologic Unit 15020015, at Turquoise and Oak Streets in Flagstaff.

DRAINAGE AREA.--1.87 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1969	09-12-69	112		1975	09-00-75	10	
1970	09-05-70	61		1976	02-09-76	51	
1971	08-03-71	12		1977	07-22-77	5.0	
1972	12-28-71	15		1978	02-28-78	90	
1973	04-13-73	79		1979	12-18-78	135	
1974	08-10-74	18		1980	02-19-80	107	

Magnitude and probability of instantaneous peak flow based on period of record 1969-80

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
38.4	95.9	151	240	321	413
Weighted skew	(logs) =	-0.25			
Mean	(logs) =	1.56			
Standard dev.	(logs) =	0.49			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
375	2.4	7,130	45.0	3.0	19.9	2.0	4.0

